



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: Gregory Alan SWORDS

SERIAL NO.: 10/517,843

Group Art Unit: 3738

FILED: July 12, 2005

Examiner: Suba Ganesan

FOR: CRANIOFACIAL IMPLANT

Attorney Docket No. 37370/339252

Date: September 4, 2007

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Alexandria, Virginia 22313-1450

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In accordance with Rules 56, 97 and 98 of the Rules of Practice in Patent Cases (37 C.F.R. §§ 1.56, 1.97, and 1.98), the publications listed on the enclosed Form PTO/SB/08 are cited for consideration by the Examiner. The above-identified patent application is the parent application to continuation-in-part U.S. Patent Application Serial No. 11/445,560 filed on June 2, 2006. The non-U.S. patent documents and other publications on the enclosed Form PTO/SB/08 and marked with an asterisk have been cited and made of record in continuation-in-part U.S. Patent Application Serial No. 11/445,560. Pursuant to 37 CFR 1.98(d), copies of these documents are not being provided at this time.

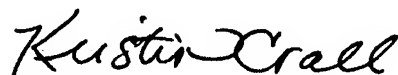
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This Information Disclosure Statement is being filed pursuant to 37 C.F.R. 1.97(c), before the mailing date of an office action which closes prosecution. Applicants enclose Form PTO 2038 authorizing the Commissioner for Patents to charge the fee in the amount of \$180.00 for consideration of this paper to the firm's credit card. The Commissioner is authorized to charge any additional fee due to Deposit Account No. 11-0855.

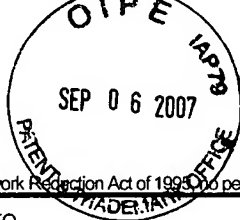
Respectfully submitted,



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Kristin M. Crall  
Registration No. 46,895

KILPATRICK STOCKTON LLP  
Suite 2800, 1100 Peachtree Street  
Atlanta, Georgia 30309-4530  
Phone (404) 815-6147



PTO/SB/08A (09-06)

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STATEMENT BY APPLICANT**

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Sheet 1 of 4

**Complete if Known**

Application Number	10/517,843
Filing Date	July 12, 2005
First Named Inventor	Gregory Alan SWORDS
Art Unit	3738
Examiner Name	Suba GANESAN
Attorney Docket Number	37370/339252

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US-4,089,071	05-16-1978	Kalnberz, et al.	
		US-4,693,721	09-15-1987	Ducheyne	
		US-4,863,474	09-05-1989	Brown, et al.	
		US-4,976,738	12-11-1990	Frey, et al.	
		US-4,978,355	12-18-1990	Frey, et al.	
		US-2003/0208205 A1	11-06-2003	Gambale	
		US-5,030,233	07-09-1991	Ducheyne	
		US-5,139,497	08-18-1992	Tilghman, et al.	
		US-5,346,492	09-13-1994	Morgan	
		US-5,383,931	01-24-1995	Hehli, et al.	
		US-5,468,242	11-21-1995	Reisberg	
		US-5,489,305	02-06-1996	Morgan	
		US-5,496,372	03-05-1996	Hamamoto, et al.	
		US-5,690,631	11-25-1997	Duncan, et al.	
		US-5,743,913	04-28-1998	Wellisz	
		US-5,769,637	06-23-1998	Morgan	
		US-5,989,427	11-23-1999	Ellard, et al.	
		US-5,824,088	10-20-1998	Kirsch	
		US-5,989,472	11-23-1999	Ashby, et al.	
		US-6,031,148	02-29-2000	Hayes, et al.	
		US-6,071,291	06-06-2000	Forst, et al.	
		US-6,093,188	07-25-2000	Murray	
		US-6,129,728	10-10-2000	Schumacher, et al.	
		US-6,143,036	11-07-2000	Comfort	
		US-6,221,075 B1	04-24-2001	Tormala, et al.	
		US-6,238,214 B1	05-29-2001	Robinson	
		US-6,315,798 B1	11-13-2001	Ashby, et al.	
		US-6,325,803 B1	12-04-2001	Schumacher, et al.	
		US-6,394,807 B2	05-28-2002	Robinson	
		US-2002/0120348 A1	08-29-2002	Melican, et al.	
		US-2002/0123750 A1	09-05-2002	Eisermann, et al.	
		US-6,620,332 B2	09-16-2003	Amrich	

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Gregory Alan SWORDS

Art Unit

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		Number - Kind Code <sup>2</sup> (if known)			
		US-6,645,250 B2	11-11-2003	Schulter	
		US-6,652,585 B2	11-25-2003	Lange	
		US-6,692,497 B1	02-17-2004	Tormala et al.	
		US-6,692,498 B1	02-17-2004	Niiranen, et al.	
		US-6,827,743 B2	12-07-2004	Eisermann, et al.	
		US-2004/0267349 A1	12-30-2004	Richeter	
		US-6,852,128 B2	02-08-2005	Lange	
		US-2005/0043733 A1	02-24-2005	Eisermann, et al.	
		US-2005/146070 A1	07-05-2005	Muratoglu, et al.	
		US-2006/0116682 A1	06-01-2006	Longo	
		US-2006/0217813 A1	09-28-2006	Posnick, et al.	
		US-2006/0224242 A1	10-05-2006	Swords	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		*EP 0 178 650 A2	04-23-1986	Ducheyne		
		*EP 0 423 420 A2	04-24-1991	Timesh, Inc.		
		*EP 0 433 852 A1	06-26-1991	Oswald Leibinger GMBH		Abstr
		*EP 0 544 384 A2	06-02-1993	Timesh, Inc.		
		*EP 0 566 255 A1	10-20-1993	Timesh, Inc.		
		*EP 0 654 250 A1	05-24-1995	Leibinger GMBH		
		*EP 0 910 993 A2	04-28-1999	Howmedica Leibinger GMBH		
		*WO 02/092882 A1	11-21-2002	Tecomet, Inc.		
		*WO 03/084410 A1	10-16-2003	Board of Regents, The Univ. of Texas System		
		WO 2004/093743 A1	11-04-2004	Swords		
		*GB 2 059 267 A	04-23-1981	Leuven Research & Development		
		*JP 02237559 A	09-20-1990	Kobe Steel Ltd.		Abstr
		*JP 9-173364	07-08-1997	Timesh, Inc.		Yes
		*JP 11155879 A	06-15-1999	Howmedica Leibinger GMBH		Abstr
		DE 2 404 214	01-29-1974	Comptoir Lyon- Alemandlou		Abstr

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Attorney Docket Number	37370/339252

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Helfen, <i>et al.</i> , 'Zementfreie Pfanne und zementierter Schaft-Konzept einer „Hybrid-Lösung“ sowie Ergebnisse einer drei- bis sechsjährigen klinischen Erfahrung,' <i>Z. Ortho.</i> , 131:578-584 (1993)	Abstr
		*PARK, HUN K., Biomechanical properties of high-density polyethylene for pterional prosthesis, <a href="http://findarticles.com">http://findarticles.com</a> , Neurological Research, Oct. 2002	
		*JANECKA, IP (2000): New reconstructive technologies in skull base surgery – Role of titanium mesh and porous polyethylene, <i>Archives of Otolaryngology-head &amp; Neck Surgery</i> , 126 (3): 396-401 Mar 2000	
		*OKA M., USHIO K., KUMAR P., ET AL. (2000): Artificial Articular Cartilage, <i>Proc Inst Mech Eng [H]</i> , 214(1):59-68, 2000	
		*MURAKAMI, N. SAITO N., HORIUCHI H., ET AL. (2002): Repair of segmental defects in rabbit humeri with titanium fiber mesh cylinders containing recombinant human bone morphogenetic protein-2 (rhBMP-2) and a synthetic polymer, <i>J Biomed Mat Res</i> , 62(2):169-174, Nov 2002	
		*MURAKAMI N., SAITO N, TAKAHASHI J., OTA H., ET AL. (2003): Repair of a proximal femoral bone defect in dogs using a porous surfaced prosthesis in combination with recombinant BMP-2 and a synthetic polymer carrier	
		LIU, JAMES K., M.D., ET AL., Porous Polyethylene Implant for Cranioplasty and Skull Base Reconstruction, <i>Medscape</i> , April 12, 2004	
		The Ahmed Glaucoma Valve, Ahmed website, 2004	
		MEDPOR Biomaterials brochure, 05 pages, Porex Surgical, Inc. (2004)	
		Wong, 'Rigid mesh fixation for alloplastic cranioplasty,' <i>J. Craniofac. Surg.</i> , 5(4):265-9 (1994) Abstract	
		Guarda-Nardini, 'Use of porous polyethylene (Medpor) in maxillofacial surgery, <i>Minerva Stomatol.</i> , 44(12):559-82 (1995) Abstract	
		Roberson, <i>et al.</i> , 'Traumatic cranial defects reconstructed with the HTR-PMI cranioplastic implant,' <i>J. Craniomaxillofac. Trauma</i> , 3(2):8-13 (1997) Abstract	
		Lara, <i>et al.</i> , 'Technical considerations in the use of polymethylmethacrylate in cranioplasty,' <i>J. Long Term Eff. Med. Implants</i> , 8(1):43-53 (1998) Abstract	

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Attorney Docket Number	37370/339252

**NON PATENT LITERATURE DOCUMENTS**

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		Jones, <i>et al.</i> , 'Combined use of titanium mesh and biocompatible osteoconductive polymer in the treatment of full thickness calvarial defects,' <i>Br. J. Oral Maxillofac. Surg.</i> , 36(2):143-5 (1998) Abstract	
		Temerkhanov, <i>et al.</i> , 'The use of titanium mesh plates for graft fixation in mandibular osteoplasty,' <i>Stomatologiya (Mosk)</i> , 77(6):31-3 (1998) Abstract	
		Moe, <i>et al.</i> , 'Resorbable fixation in facial plastic and head and neck reconstructive surgery: an initial report on polyactic acid implants,' <i>Laryngoscope</i> , 111(10):1697-701 (2001) Abstract	
		Mouatt, 'Acrylic cranioplasty and axial pattern flap following calvarial and cerebral mass excision in a dog,' <i>Aust. Vet. J.</i> , 80(4):211-5 (2002) Abstract	

Examiner Signature		Date Considered	
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